

# PERCENTAGES (FOUNDATION)

[ESTIMATED TIME: 75 minutes]

# GCSE

(+ IGCSE) EXAM QUESTION PRACTICE

1.

[7 marks]

Students in Year 11 took a maths test.  
The maximum mark in the test was 75.

- (a) Melissa scored 48 marks.  
Express 48 as a percentage of 75

.....  
(2)

- (b) Ciaran scored 76%.  
Work out 76% of 75 marks.

.....  
(2)

- (c) 56% of the students who took the test were girls.  
There were 126 girls that took the test.  
Work out the total number of students that took the test.

.....  
(3)

2.

[4 marks]

Paul got 68 out of 80 in a science test.

(a) Work out 68 out of 80 as a percentage.

.....%  
(2)

Paul got 72 marks in a maths test.

72 is 60% of the total number of marks.

(b) Work out the total number of marks.

.....  
(2)

3.

[3 marks]

Jade has tax deducted from her income at the rate of 24%.

Last month, after tax had been deducted, \$1786 of her income remained.

Calculate her income last month before the tax was deducted.

\$ .....

In a sale, normal prices were reduced by 35%.

- (a) The normal price of a camera was £180  
Work out the sale price of the camera.

£ .....  
(3)

- (b) The normal price of a clock was reduced by £84  
Work out the normal price of the clock.

£ .....  
(3)

- (c) The sale price of a computer was £442  
Work out the normal price of the computer.

£ .....  
(3)

5.

[3 marks]

Ella invested \$8000 for 3 years at 5% per annum **compound interest**.

Calculate the value of her investment at the end of 3 years.

\$ .....

6.

[6 marks]

In a sale, normal prices are reduced by 8%

(a) The normal price of a jacket is £28

Work out the price of the jacket in the sale.

£ .....  
(3)

(b) In the sale, the price of a shirt decreases by £3

Work out the normal price of the shirt.

£ .....  
(3)

7.

[3 marks]

In July 2002, the population of Egypt was 69 million.  
By July 2003, the population of Egypt had increased by 2%.

Work out the population of Egypt in July 2003.

..... million

8.

[6 marks]

Lisa sees a dress in a sale.  
The normal price of the dress is \$45  
The price of the dress is reduced by 12% in the sale.

(a) Work out the price of the dress in the sale.

\$ .....  
(3)

Lisa's weekly pay increases from \$525 to \$546

(b) Calculate her percentage pay increase.

..... %  
(3)

Eloy's height was 125 cm when his age was 7 years.

His height was 153 cm when his age was 12 years.

(a) Work out the percentage increase in Eloy's height between the ages of 7 and 12 years.

.....%

(3)

Eloy's height at the age of 12 years was 85% of his height at the age of 20 years.

(b) Work out Eloy's height when his age was 20 years.

..... cm

(3)

An electronics store had a sale in which it reduced all its prices by 24%.

- (a) Tom bought a television which had been reduced by \$85  
Work out how much Tom paid for the television.

.....  
(3)

- (b) Michael paid \$140 for a DAB radio.  
Work out the original price of the radio, before the sale.

.....  
(3)

- (c) Alec bought a laptop, which was originally priced at \$380  
Work out the sale price for the laptop.

.....  
(3)

Maddie invested \$3000 for 4 years at 2.5% per annum compound interest.

- (a) Calculate the amount of the investment at the end of 4 years.

\$ .....  
(3)

- (b) Work out the amount of interest that Maddie earned in these 4 years.

\$ .....  
(2)

Pardeep invests a sum of money at an interest rate of 3% per year.  
At the end of one year, the interest he receives is \$372

- (c) Work out the value of Pardeep's investment at the end of one year.

\$ .....  
(3)



12.

[6 marks]

Cara's salary was increased from \$28 250 to \$29 832

(a) Work out the percentage increase in Cara's salary.

..... %  
(3)

Pedro's salary was increased by 5.2%.  
After the increase, his salary was \$28 141

(b) Work out his salary before the increase.

\$ .....  
(3)

13.

[4 marks]

Jomo invested an amount of money at 4% per annum **compound interest**.  
At the end of 2 years, the value of his investment was £3380

How much of the £3380 was interest?

£.....

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**14.****[3 marks]**

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Serena bought a car that had a value of \$16 000

At the end of each year, the value of her car had depreciated by 15%.

Calculate the value of her car at the end of 3 years.

\$.....

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**15.****[3 marks]**

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The population of India increased by 20% between 1989 and 1999.

The population of India increased by a further 17% between 1999 and 2009.

Calculate the percentage by which the population of India increased between 1989 and 2009.

..... %